2. (Amended) BEMF detection circuit according to claim 1, wherein said single calibration circuitry comprises:

~~an~~ a resistive element having a first and a second terminal including a plurality of resistances connected in series, the first terminal is coupled to ~~a~~ the prefixed bias voltage and the second terminal is ~~receiving~~ coupled to receive a signal proportional to the current in the coil; and

said plurality of resistances are connected to a plurality of controlled switches controlled by said calibration control signal, a terminal of each of said switches are connected together to form a node, wherein on said node ~~is possible~~ at least one of the switches is coupled to take a portion of ~~the~~ a voltage applied on said plurality of resistances in response to said calibration control signal.

3. (Amended) BEMF detection circuit according to claim 2, wherein said signal proportional to the current in the coil is produced by an operational amplifier ~~which amplify~~ that amplifies a voltage on a resistance ~~on~~ through which the current in the coil is flowing.

4. (Amended) A BEMF detection circuit for a voice-coil motor operative to continually generate a signal proportionally to ~~the~~ a velocity of said voice-coil motor such that said signal is the sum of a first signal component, a second signal component and a third signal component, the BEMF detection circuit comprising:

a circuit block having:

an input terminal coupled to receive the first signal component representing the product of a first multiplier factor and ~~the~~ a voltage across the coil;

an input terminal coupled to receive the second signal component representing the product of a second multiplier factor and ~~the~~ a current in the coil; and

an input terminal coupled to receive the third signal component representing a signal able to eliminate said second signal component, while the current is in the coil in a continuous mode.